

According to (EC) No. 1907/2006, as amended

<b>LA LMM-6000</b>		<b>GSLA_LMM-6000 Black Paste 500g</b>	
Product specification	<b>RS_FP_603463</b>	Revision Date	<b>13.03.2017</b>
Version	<b>3.1</b>	Print Date	<b>16.05.2018</b>
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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Material number : **1411199**

Trade name : **LA LMM-6000**  
GSLA\_LMM-6000 Black Paste 500g

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Decorative coating

### 1.3 Details of the supplier of the safety data sheet

Company : Ferro GmbH  
Gutleutstraße 215  
60327 Frankfurt am Main

Telephone : +4969271160

Telefax : +496927116333

E-mail address : sdb@ferro.com

Responsible/issuing person

### 1.4 Emergency telephone number

In-Country Number : +(44)-870-8200418

CHEMTREC Global Number : +(1)-703-527-3887(Call Collect)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.

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## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**  
 P201 Obtain special instructions before use.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 Keep container tightly closed.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

molybdenum trioxide

ammonium metavanadate

ethyl acetate

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical nature : glycol ether/-acetate  
 silicatic material

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inorganic metal-nonmetal compound  
 carbonic acid/ester/anhydride  
 alcohol  
 organic solvent  
 inorganic salt

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
molybdenum trioxide	1313-27-5 215-204-7	Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H335	>= 25 - < 50
ammonium metavanadate	7803-55-6 232-261-3	Acute Tox. 3; H301 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335	>= 3 - < 10
2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36- xxxx	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 3
ethyl acetate	141-78-6 205-500-4	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 1 - < 3
solvent naphtha (petroleum), light, aromatic	64742-95-6 265-199-0	Flam. Liq. 3; H226 Asp. Tox. 1; H304	< 1
Substances with a workplace exposure limit :			
ethanol	64-17-5 200-578-6	Flam. Liq. 2; H225	>= 25 - < 50
mica	12001-26-2 310-127-6		< 10
propane-1,2-diol	57-55-6 200-338-0		< 10

For explanation of abbreviations see section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.

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- If inhaled : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : None known.
- Risks : Causes serious eye irritation.  
May cause respiratory irritation.  
Suspected of causing cancer.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Exposure to decomposition products may be a hazard to health.  
Do not allow run-off from fire fighting to enter drains or water courses.

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Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.  
For safety reasons in case of fire, cans should be stored separately in closed containments.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the

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application area.

Take precautionary measures against static discharges.  
 Container may be opened only under exhaust ventilation hood.

Advice on protection against fire and explosion : Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Store in cool place. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

## 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Expressed as	Basis
ethanol	64-17-5	TWA	1.000 ppm 1.920 mg/m <sup>3</sup>		GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
molybdenum trioxide	1313-27-5	TWA	5 mg/m <sup>3</sup> (Molybdenum)	Molybdenum	GB EH40
		STEL	10 mg/m <sup>3</sup> (Molybdenum)	Molybdenum	GB EH40
mica	12001-26-2	TWA (Inhalable)	10 mg/m <sup>3</sup>		GB EH40

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Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
		TWA (Respirable)	0,8 mg/m3		GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
propane-1,2-diol	57-55-6	TWA	150 ppm 474 mg/m3		GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
		TWA	10 mg/m3		GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
		TWA (particles)	10 mg/m3		GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
		TWA (Total vapour and particles)	150 ppm 474 mg/m3		GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				
2-butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m3		2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative				
		STEL	50 ppm 246 mg/m3		2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative				
		TWA	25 ppm		GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	50 ppm		GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
ethyl acetate	141-78-6	TWA	200 ppm		GB EH40
		STEL	400 ppm		GB EH40

**Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
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2-butoxyethanol	111-76-2	butoxyacetic acid: 240 mmol/mol creatinine (Urine)	Post shift	GB EH40 BAT
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## 8.2 Exposure controls

### Engineering measures

No data available

### Personal protective equipment

- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Hand protection : Solvent-resistant gloves  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
Before removing gloves clean them with soap and water.
- Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.  
No personal respiratory protective equipment normally required.
- Protective measures : Wear suitable protective equipment.  
Avoid contact with skin.  
When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- Appearance : paste
- Colour : yellow
- Odour : characteristic
- Odour Threshold : No data available
- pH : No data available
- Melting point/range : No data available
- Flash point : 14 °C



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Method: calculated

Evaporation rate : No data available

Burning rate : No data available

Auto-ignition temperature : No data available

Upper explosion limit : 19 %(V)

Lower explosion limit : 2 %(V)

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Bulk density : No data available

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : Not determined

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : Not applicable

## 9.2 Other information

Refractive index : No data available

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No decomposition if used as directed.  
No hazards to be specially mentioned.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Stable under normal conditions.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

*ammonium metavanadate:*

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Acute oral toxicity : LD50 (Rat, male and female): 275,87 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Remarks: Toxic if swallowed.

**ethyl acetate:**  
Acute oral toxicity : LD50 Oral (Rat): 6.100 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

**ethanol:**  
Acute dermal toxicity : LD50 (Rabbit): 15.800 mg/kg

## Skin corrosion/irritation

Not classified based on available information.

### Product:

Remarks: May cause skin irritation and/or dermatitis.

### Components:

#### **2-butoxyethanol:**

Species: Rabbit  
Exposure time: 72 h  
Method: OECD Test Guideline 404  
Result: Irritating to skin.  
GLP: yes

#### **ethanol:**

Species: Rabbit  
Exposure time: 24 h  
Method: OECD Test Guideline 404  
Result: No skin irritation

## Serious eye damage/eye irritation

Causes serious eye irritation.

### Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

### Components:

#### **ammonium metavanadate:**

Species: Rabbit  
Exposure time: 1 h  
Method: OECD Test Guideline 405  
Result: Irritating to eyes.  
GLP: yes

#### **2-butoxyethanol:**

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Result: Eye irritation

***ethyl acetate:***

Species: Rabbit

Result: No eye irritation

***ethanol:***

Species: Rabbit

Method: OECD Test Guideline 405

Result: Moderate eye irritation

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Product:**

Remarks: No data available

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Suspected of causing cancer.

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

May cause respiratory irritation.

**Components:**

***ammonium metavanadate:***

Assessment: May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### Further information

**Product:**

Remarks: Solvents may degrease the skin.

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Product:

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

#### Components:

##### ***molybdenum trioxide:***

Toxicity to fish : (Pimephales promelas (fathead minnow)): 370 mg/l  
 Exposure time: 96 h  
 Remarks: No toxicity at the limit of solubility

##### ***ammonium metavanadate:***

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

##### ***2-butoxyethanol:***

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.490 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203  
 GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.800 mg/l  
 Exposure time: 48 h

##### ***ethyl acetate:***

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 220 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 560 mg/l  
 Exposure time: 48 h

Toxicity to algae : EC50 (algae): 3.300 mg/l  
 Exposure time: 48 h

##### ***solvent naphtha (petroleum), light, aromatic:***

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (algae)): 1,1 mg/l  
 Exposure time: 72 h  
 Test Type: static test

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### ***ethanol:***

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 9.268 mg/l  
Exposure time: 48 h

### ***propane-1,2-diol:***

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 51.400 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 10.000 mg/l  
Exposure time: 96 h

Toxicity to algae : EC50 (algae): 19.000 mg/l  
Exposure time: 96 h

## **12.2 Persistence and degradability**

### **Product:**

Biodegradability : Remarks: No data available

### **Components:**

#### ***molybdenum trioxide:***

Biodegradability : Remarks: No data available

#### ***ammonium metavanadate:***

Biodegradability : Remarks: No data available

#### ***2-butoxyethanol:***

Biodegradability : Remarks: No data available

#### ***ethyl acetate:***

Biodegradability : Remarks: No data available

#### ***solvent naphtha (petroleum), light, aromatic:***

Biodegradability : Remarks: No data available

#### ***ethanol:***

Biodegradability : Remarks: No data available

#### ***mica:***

Biodegradability : Remarks: No data available

#### ***propane-1,2-diol:***

Biodegradability : Remarks: No data available

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### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

**Components:**

***molybdenum trioxide:***

Bioaccumulation : Remarks: No data available

***ammonium metavanadate:***

Bioaccumulation : Remarks: No data available

***2-butoxyethanol:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 0,77 (20 °C)  
pH: 7

***ethyl acetate:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 0,73 (20 °C)

***solvent naphtha (petroleum), light, aromatic:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 3,42 - 3,9

***ethanol:***

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: -0,349 (24 °C)

***mica:***

Bioaccumulation : Remarks: No data available

***propane-1,2-diol:***

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

**Product:**

Distribution among environmental compartments : Remarks: No data available

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## Components:

### ***molybdenum trioxide:***

Distribution among environmental compartments : Remarks: No data available

### ***ammonium metavanadate:***

Distribution among environmental compartments : Remarks: No data available

### ***2-butoxyethanol:***

Distribution among environmental compartments : Remarks: No data available

### ***ethyl acetate:***

Distribution among environmental compartments : Remarks: No data available

### ***solvent naphtha (petroleum), light, aromatic:***

Distribution among environmental compartments : Remarks: No data available

### ***ethanol:***

Distribution among environmental compartments : Remarks: No data available

### ***mica:***

Distribution among environmental compartments : Remarks: No data available

### ***propane-1,2-diol:***

Distribution among environmental compartments : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

### Product:

Additional ecological information : Remarks: No data available  
There is no data available for this product.



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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

- Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

- ADN : UN 1263  
ADR : UN 1263  
RID : UN 1263  
IMDG : UN 1263  
IATA : UN 1263

### 14.2 UN proper shipping name

- ADN : PAINT  
ADR : PAINT  
RID : PAINT  
IMDG : PAINT  
IATA : Paint

### 14.3 Transport hazard class(es)

- ADN : 3  
ADR : 3  
RID : 3  
IMDG : 3  
IATA : 3

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**14.4 Packing group****ADN**

Packing group : II  
 Classification Code : F1  
 Hazard Identification Number : 33  
 Labels : 3  
 Special Provisions : Special Provision 640C

**ADR**

Packing group : II  
 Classification Code : F1  
 Hazard Identification Number : 33  
 Labels : 3  
 Tunnel restriction code : (D/E)  
 Special Provisions : Special Provision 640C

**RID**

Packing group : II  
 Classification Code : F1  
 Hazard Identification Number : 33  
 Labels : 3  
 Special Provisions : Special Provision 640C

**IMDG**

Packing group : II  
 Labels : 3  
 EmS Code : F-E, S-E

**IATA**

Packing instruction (cargo aircraft) : 364  
 Packing instruction (passenger aircraft) : 353  
 Packing instruction (LQ) : Y341  
 Packing group : II  
 Labels : 3

**14.5 Environmental hazards****ADN**

Environmentally hazardous : no

**ADR**

Environmentally hazardous : no

**RID**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

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#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Neither banned nor restricted

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Neither banned nor restricted

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Neither banned nor restricted

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Neither banned nor restricted

Regulation (EC) No 850/2004 on persistent organic pollutants : Neither banned nor restricted

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as	2.500 t	25.000 t

# SAFETY DATA SHEET

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regards flammability and  
environmental hazards as  
the products referred to in  
points (a) to (d)

**The components of this product are reported in the following inventories:**

- EINECS (European Union) : On the inventory, or in compliance with the inventory
- SWISS (Switzerland) : On the inventory, or in compliance with the inventory
- TSCA (United States) : On TSCA Inventory
- DSL/NDSL (Canada) : All components of this product are on the Canadian DSL.
- AICS (Australia) : On the inventory, or in compliance with the inventory
- NZioC (New Zealand) : On the inventory, or in compliance with the inventory
- ENCS (Japan) : On the inventory, or in compliance with the inventory
- ISHL (Japan) : Not in compliance with the inventory
- KECI (Korea) : On the inventory, or in compliance with the inventory
- PICCS (Philippines) : On the inventory, or in compliance with the inventory
- IECSC (China) : On the inventory, or in compliance with the inventory
- TCSI (Taiwan) : On the inventory, or in compliance with the inventory
- CICR (Turkey) : On the inventory, or in compliance with the inventory
- INSQ (Mexico) : On the inventory, or in compliance with the inventory

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**15.2 Chemical Safety Assessment**

Not applicable

**SECTION 16: OTHER INFORMATION****Full text of H-Statements**

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer.

**Full text of other abbreviations**

Acute Tox.	: Acute toxicity
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.